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Improving Early Numeracy Skills through Cooking

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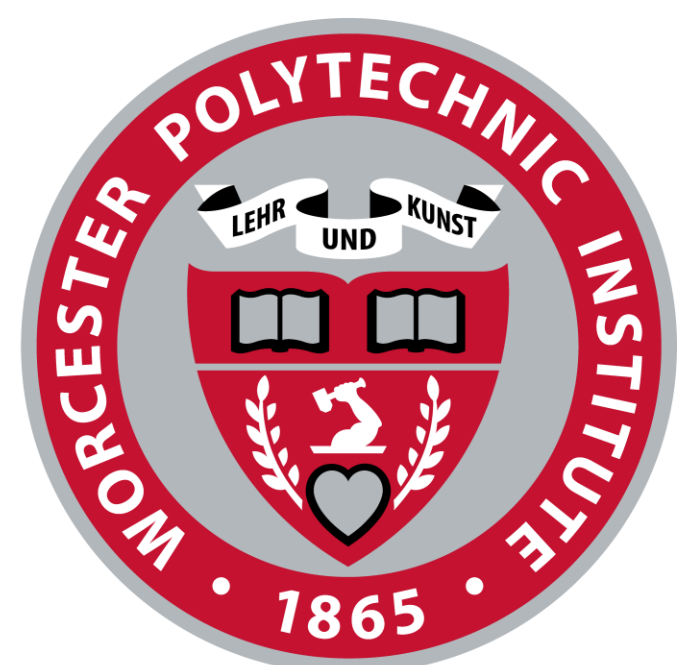
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Improving Early Numeracy Skills through Cooking

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Problem

Young children enter school without a strong foundation in early numeracy skills. More home intervention will help remedy the problem.

Solution

Our solution is an interactive cookbook/storybook that parents complete with their children.

Numeracy and Number Sense

- Recognizing numbers and counting
- Comparing magnitudes
- Addition and subtraction

An Excerpt From Our Storybook:

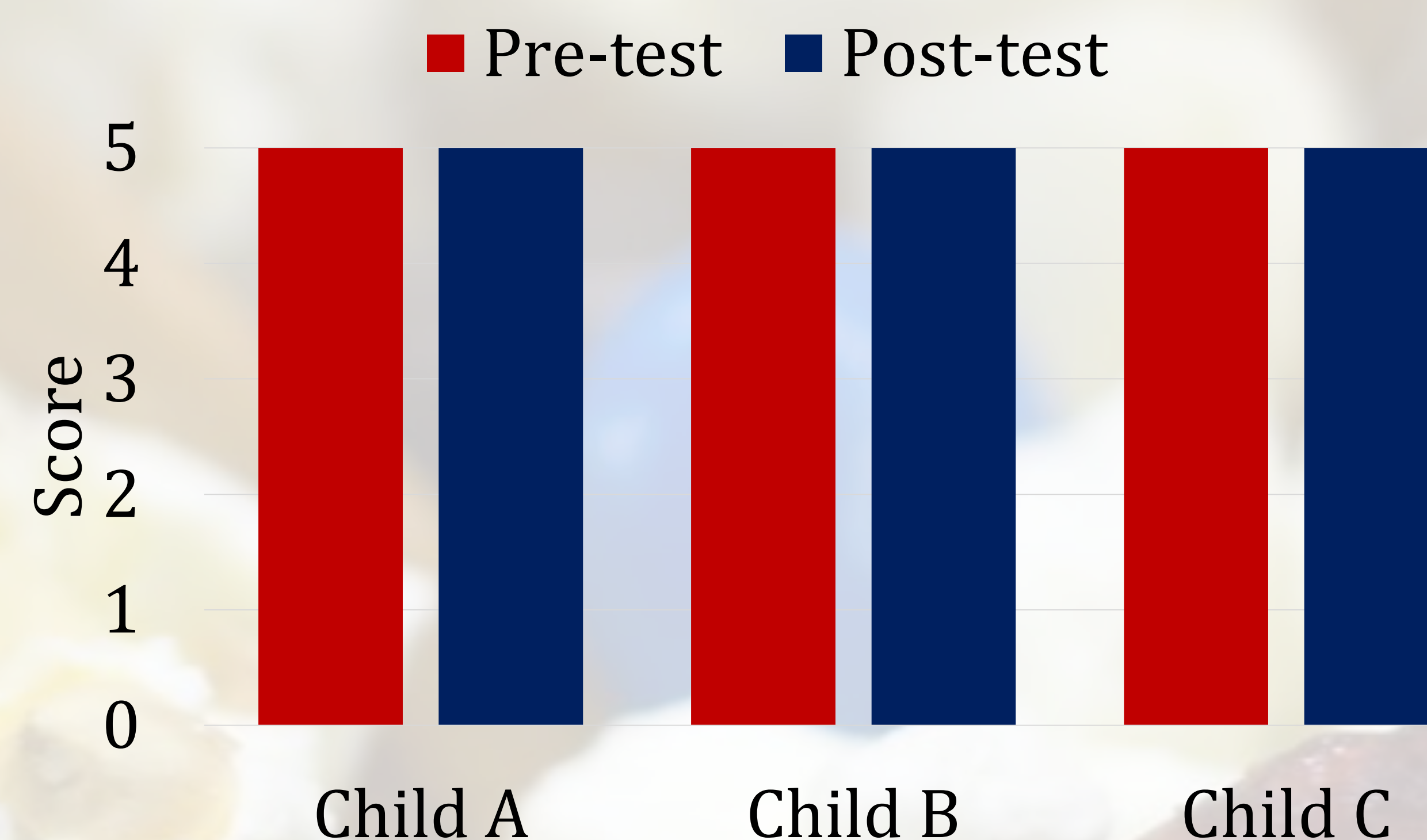


Now we need to make the owl's tummy. Count out **3** cheerios and line them up at the bottom of the toast between the wings. Then count out **4** more cheerios and line them up above the other cheerios. **3** cheerios plus **4** more cheerios makes **7** cheerios altogether. Can you count all **7** cheerios?

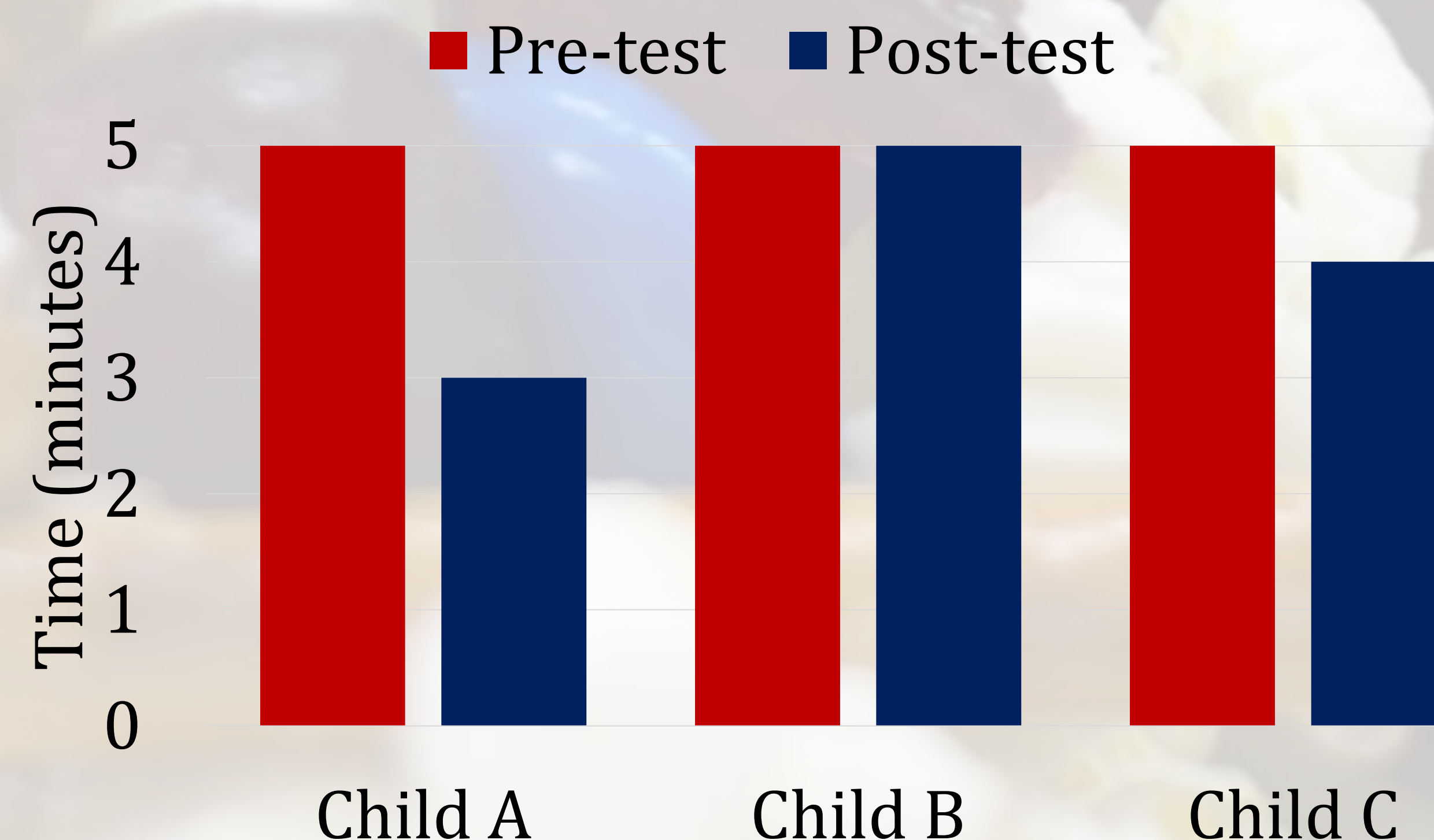
Assessment

- Parents administer activity/tests at home
- Children ages 4-5
- Pre-tests and post-test given to children
- Tests are 5 questions covering number sense
- Measure accuracy and completion time
- Parent survey for additional feedback

Scores for Pre-tests and Post-tests



Times for Pre-tests and Post-tests



Why We Chose Cooking

Cooking promotes the development of number sense in a fun, interactive, and engaging way.



Conclusions

- Children received perfect scores on both tests
- Two of the three children completed the post-test faster
- Parents/children enjoyed doing the activity
- Parents would purchase the product
- Product is successful

References

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- Skwarchuk, S. L., Sowinski, C., & LeFevre, J. A. (2014). Formal and informal home learning activities in relation to children's early numeracy and literacy skills: The development of a home numeracy model. Journal of experimental child psychology, 121, 63-84.